



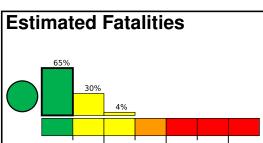


PAGER Version 3

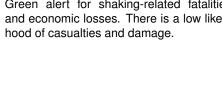
Created: 2 hours, 3 minutes after earthquake

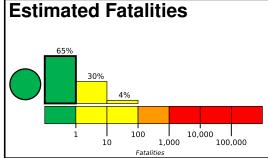
M 5.5, 89 km W of Vallenar, Chile

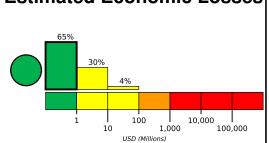
Origin Time: 2021-12-14 04:23:55 UTC (Mon 23:23:55 local) Location: 28.6256° S 71.6744° W Depth: 22.4 km



Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likeli-







Estimated Population Exposed to Earthquake Shaking

ESTIMATED EXPOSURE	POPULATION (k=x1000)	_*	780k	16k	0	0	0	0	0	0
ESTIMATEI MERCALLI	MODIFIED INTENSITY	I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan 5000 72.8°W 71.5°W 70.2°W Copiapo 28.2°S 29.4°S quimbo

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

Date		Dist.	Mag.	Max	Shaking	
	(UTC)	(km)		MMI(#)	Deaths	
	1983-10-04	258	7.6	VII(30k)	5	
	1975-03-13	145	6.9	VIII(266k)	2	
	1997-10-15	256	7.1	VIII(3k)	7	

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

nom decivames.org				
MMI	City	Population		
III	Vallenar	45k		
Ш	Vallenar	<1k		
Ш	Vicuna	13k		
Ш	Coquimbo	161k		
Ш	La Serena	155k		
II	Copiapo	129k		

bold cities appear on map.

(k = x1000)